

FIG. 1A

136

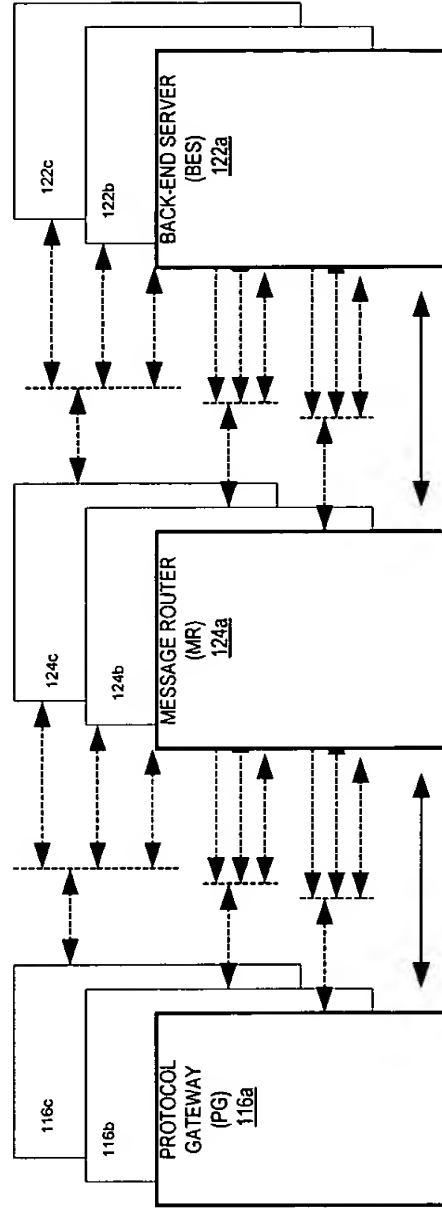


FIG. 1B

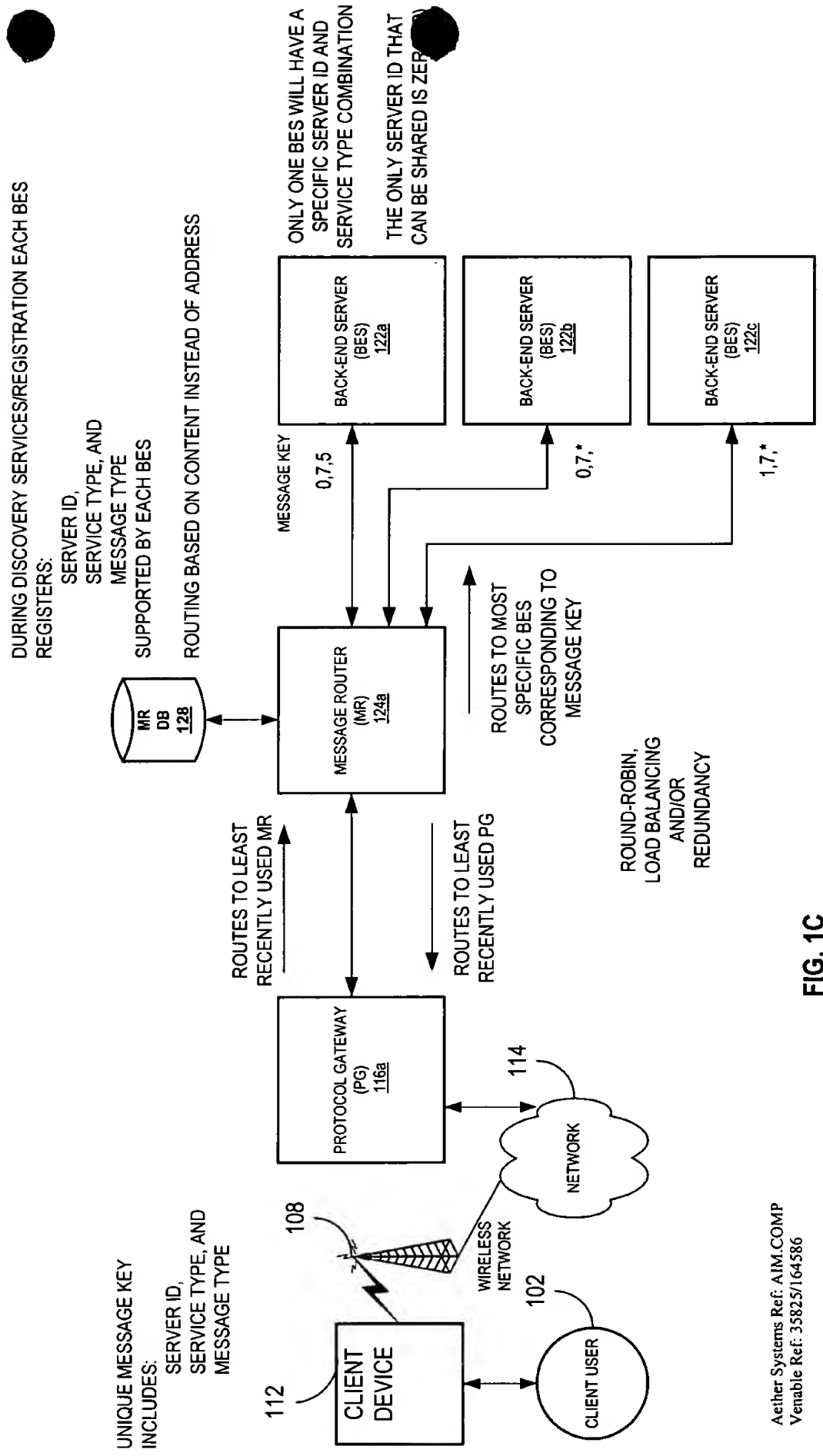


FIG. 1C

FIG. 1D is a block diagram of a network architecture. The architecture includes a Protocol Gateway 116, a Firewall 120, a Message Router 124, and an MR Database 128. The Protocol Gateway 116 is connected to the Firewall 120 via a connection 146. The Firewall 120 is connected to the Message Router 124 via a connection 148. The Message Router 124 is connected to the MR Database 128 via a connection 150. The Message Router 124 is also connected to the Protocol Gateway 116 via a connection 150. The Message Router 124 is also connected to the MR Database 128 via a connection 150. The Message Router 124 is also connected to the MR Database 128 via a connection 150.

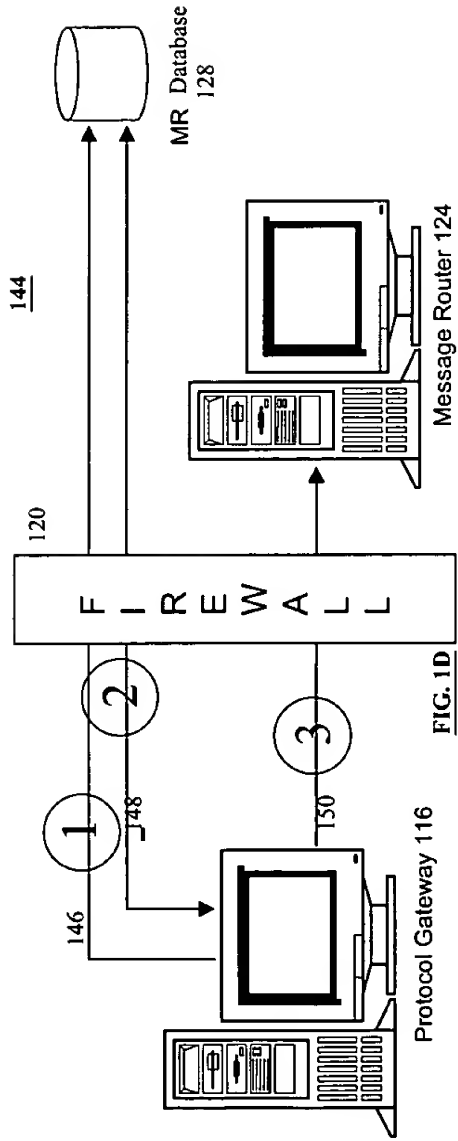


FIG. 1D

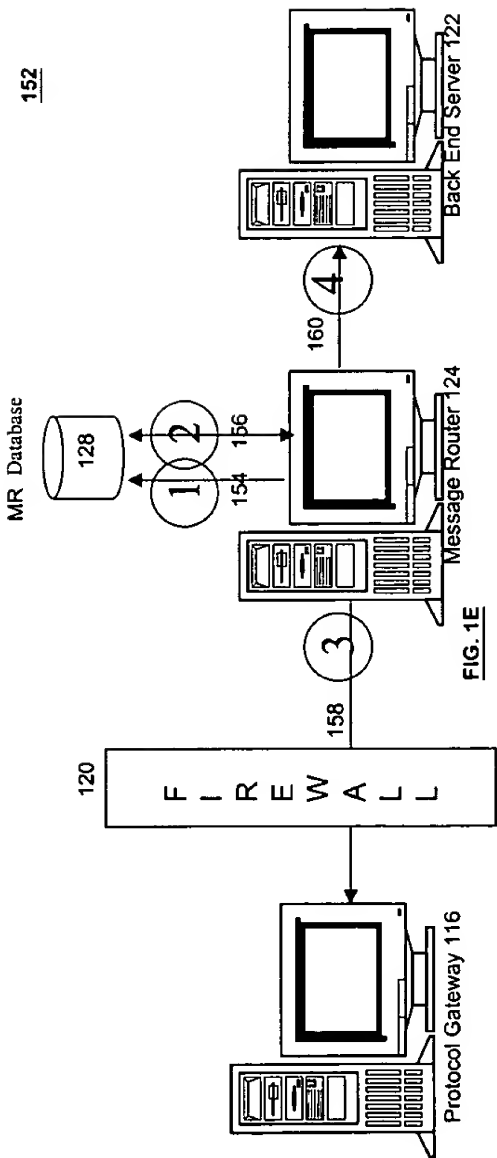


FIG. 1E

FIG. 1F is a block diagram of a system architecture. The diagram shows a central component labeled 164, which is connected to three other components: 128 (MR Database), 124 (Message Router), and 122 (Back End Server). The connections are labeled 1, 2, and 3 respectively.

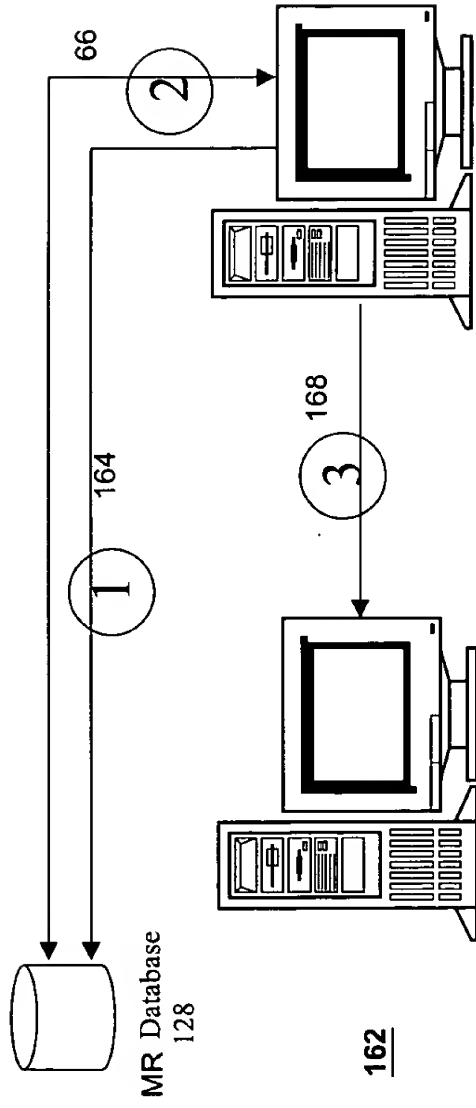


FIG. 1F

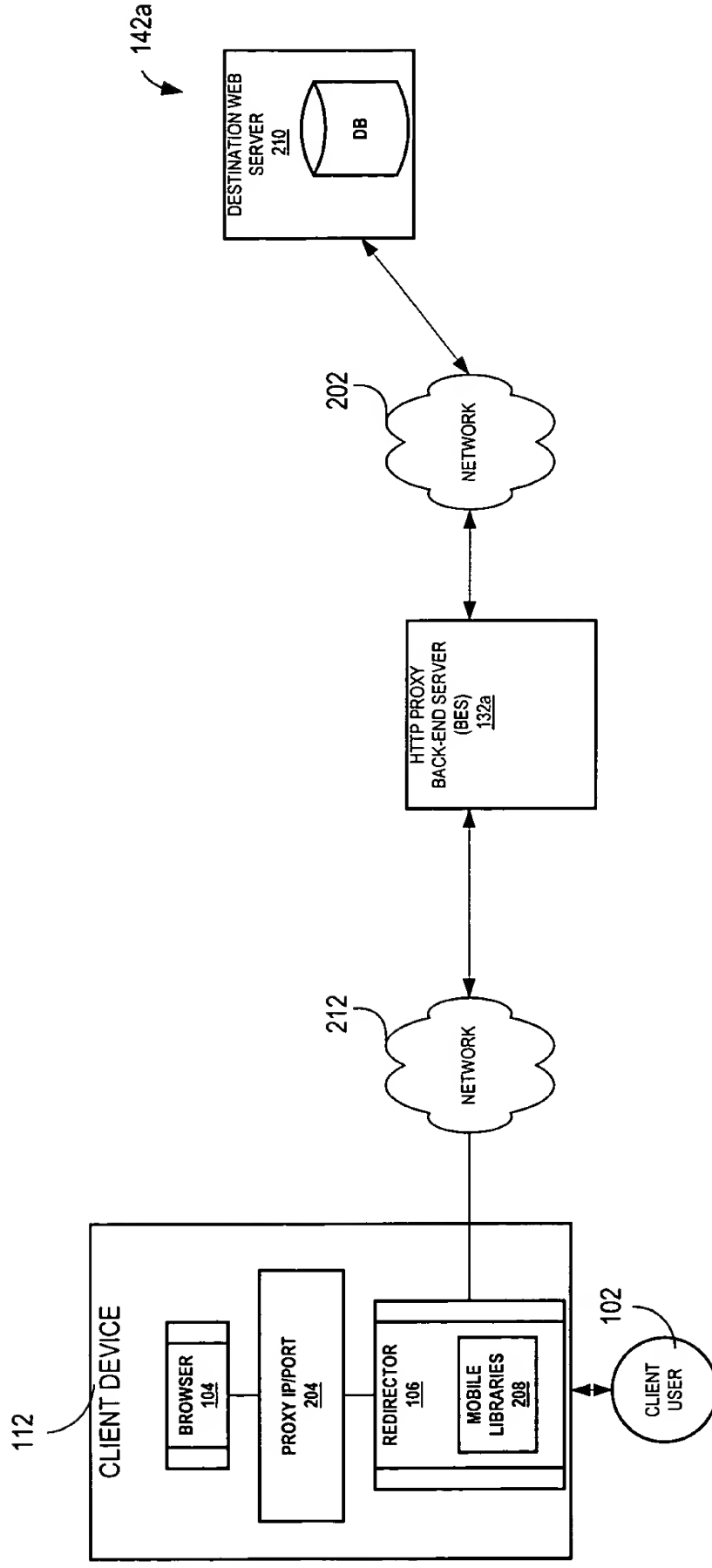


FIG. 2

FIG. 3 is a block diagram of a network architecture 300, according to one embodiment of the present invention. The network architecture 300 includes a plurality of layers 302, 304, 306, 308a, 308b, 308c, 308d, 308e, and 308f, which are arranged in a hierarchical manner. The layers 302, 304, and 306 are the top three layers of the network architecture 300, and the layers 308a, 308b, 308c, 308d, 308e, and 308f are the bottom six layers of the network architecture 300. The layers 302, 304, and 306 are the top three layers of the network architecture 300, and the layers 308a, 308b, 308c, 308d, 308e, and 308f are the bottom six layers of the network architecture 300.

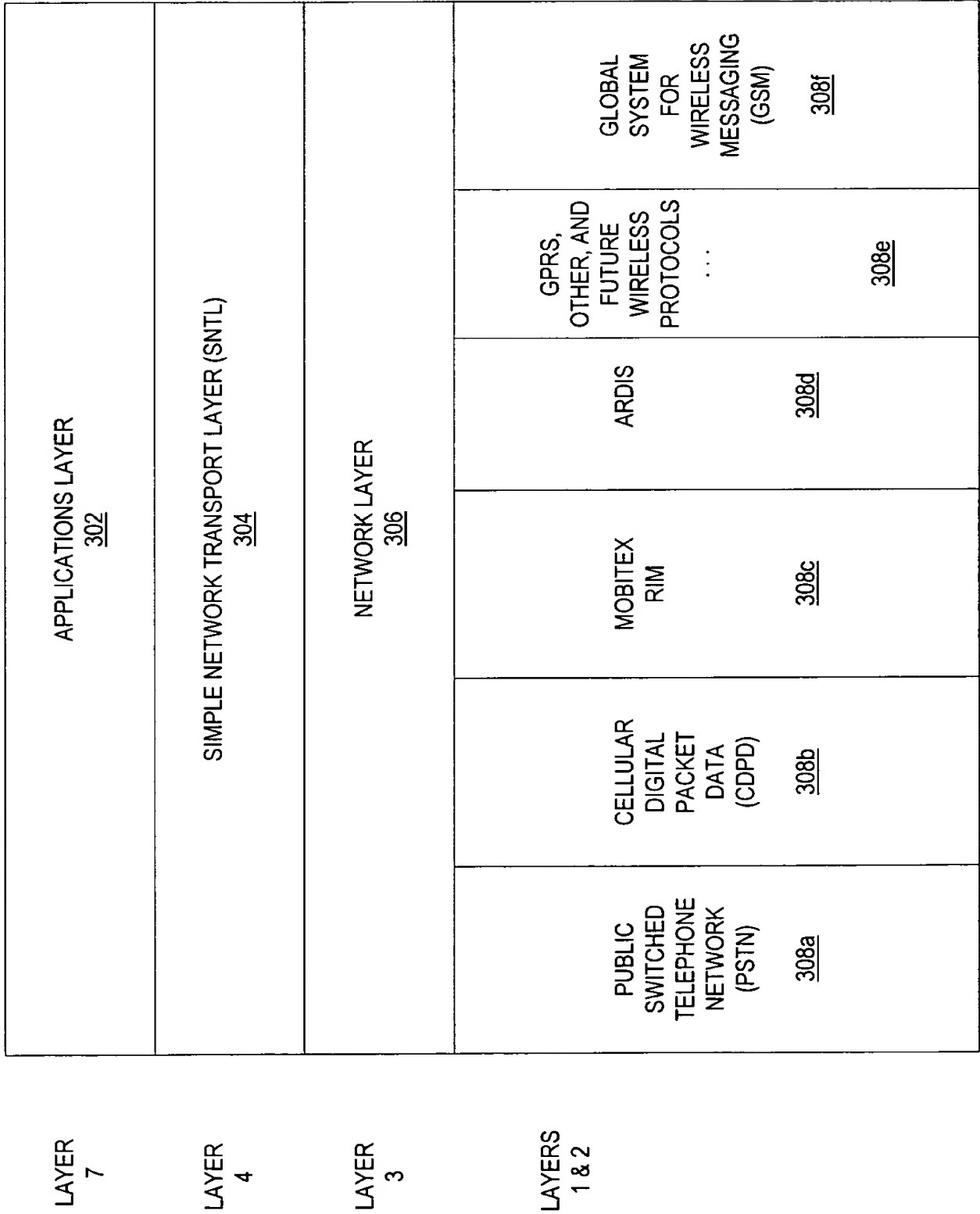


FIG. 3

FIG. 4 is a block diagram of a system 400 for device authentication and reauthentication. The system 400 includes a client device 112, a message router (MR) 124, a message router database (MR DB) 128, and a back-end server (BES) 122. The client device 112 communicates with the message router 124 via a network. The message router 124 communicates with the MR DB 128 and the BES 122. The message router 124 also communicates with the back-end server 122 via a network.

400

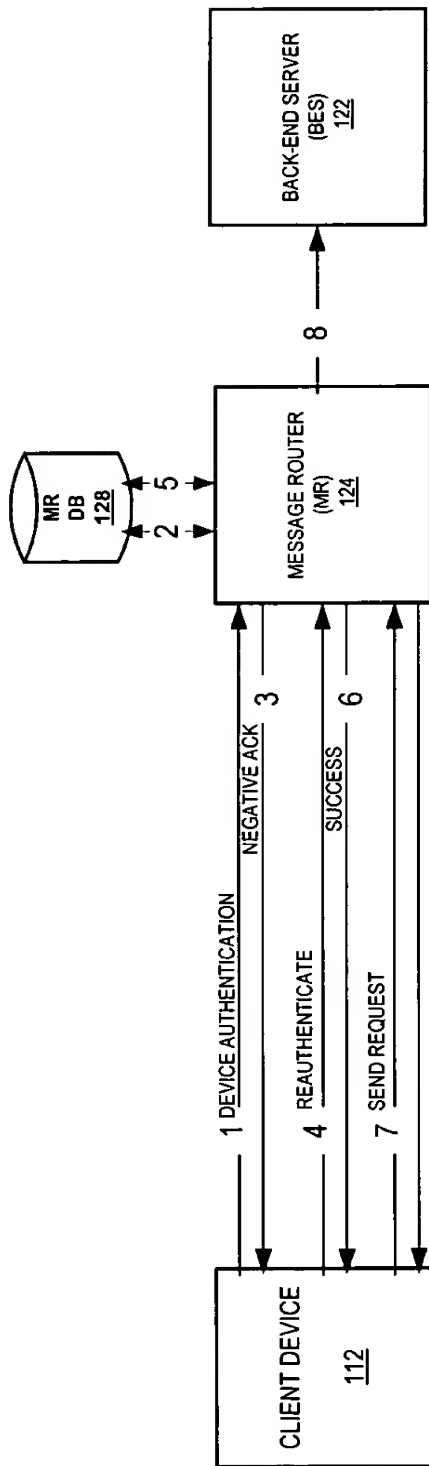


FIG. 4

500

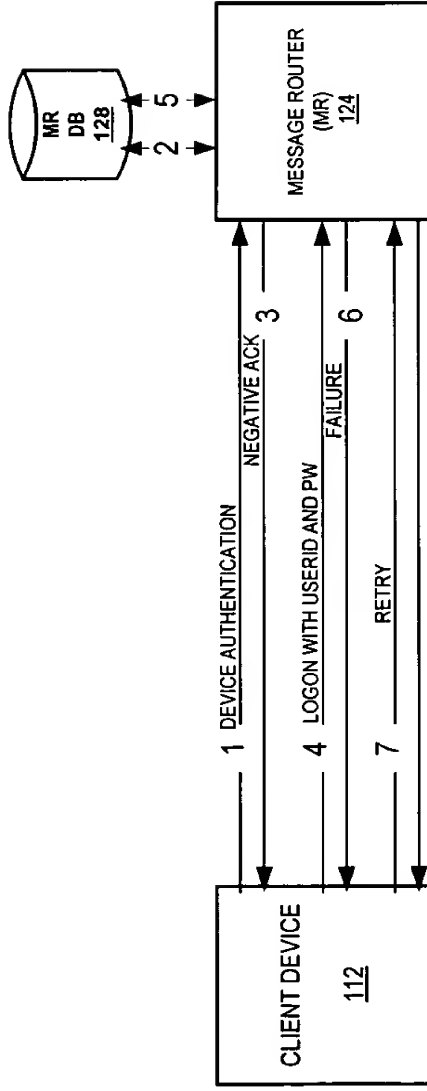


FIG. 5

600

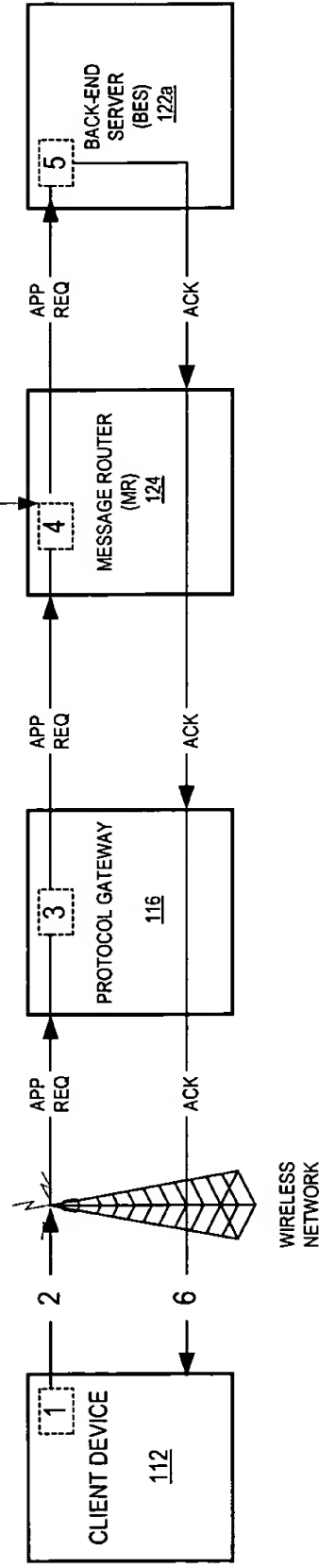


FIG. 6A

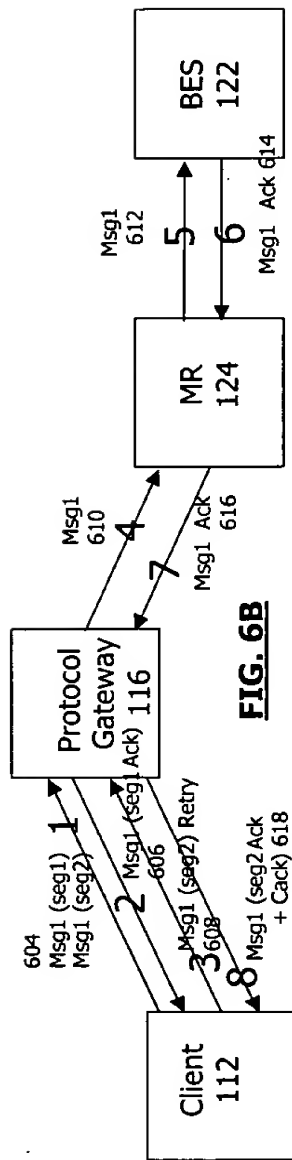


FIG. 6B

700

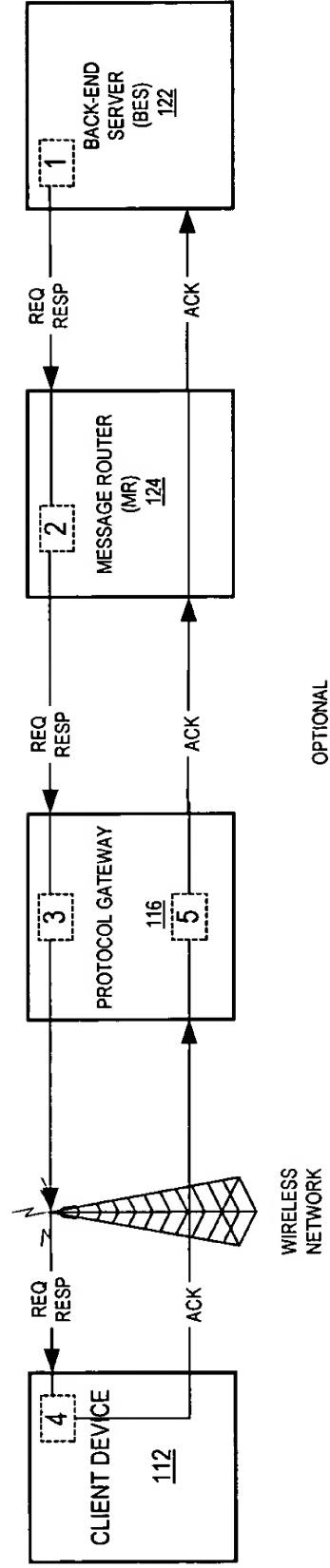


FIG. 7A

702

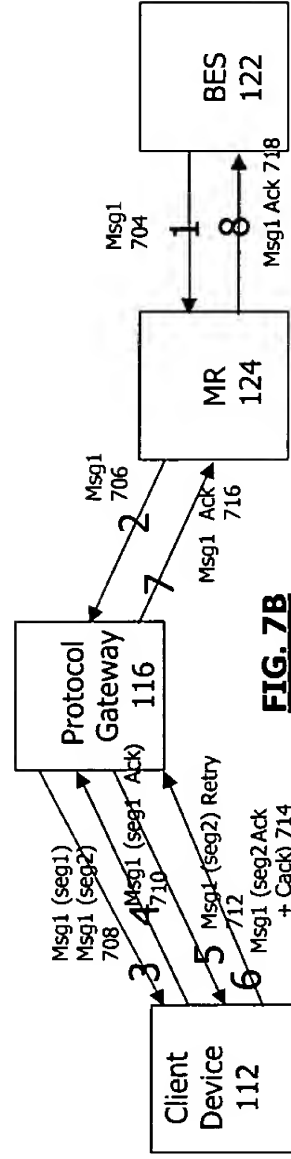


FIG. 7B

FIG. 8A is a block diagram of a system 800 for providing a service to a client device 112. The system 800 includes a client device 112, a wireless network, a protocol gateway 116, a message router (MR) 124, and a back-end server (BES) 122. The client device 112 is connected to the wireless network, which is connected to the protocol gateway 116. The protocol gateway 116 is connected to the message router (MR) 124, which is connected to the back-end server (BES) 122. The system 800 is configured to provide a service to the client device 112 via the wireless network, the protocol gateway 116, the message router (MR) 124, and the back-end server (BES) 122.

800

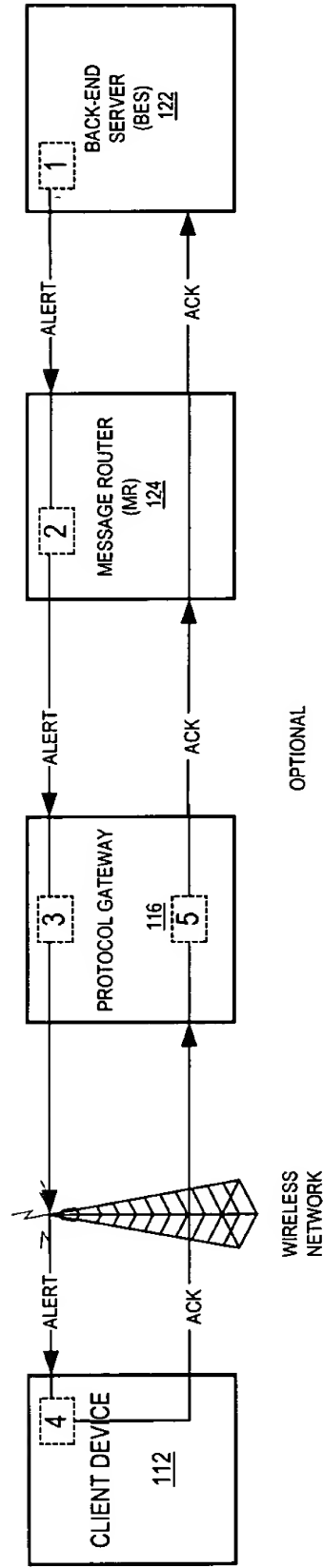


FIG. 8A

802

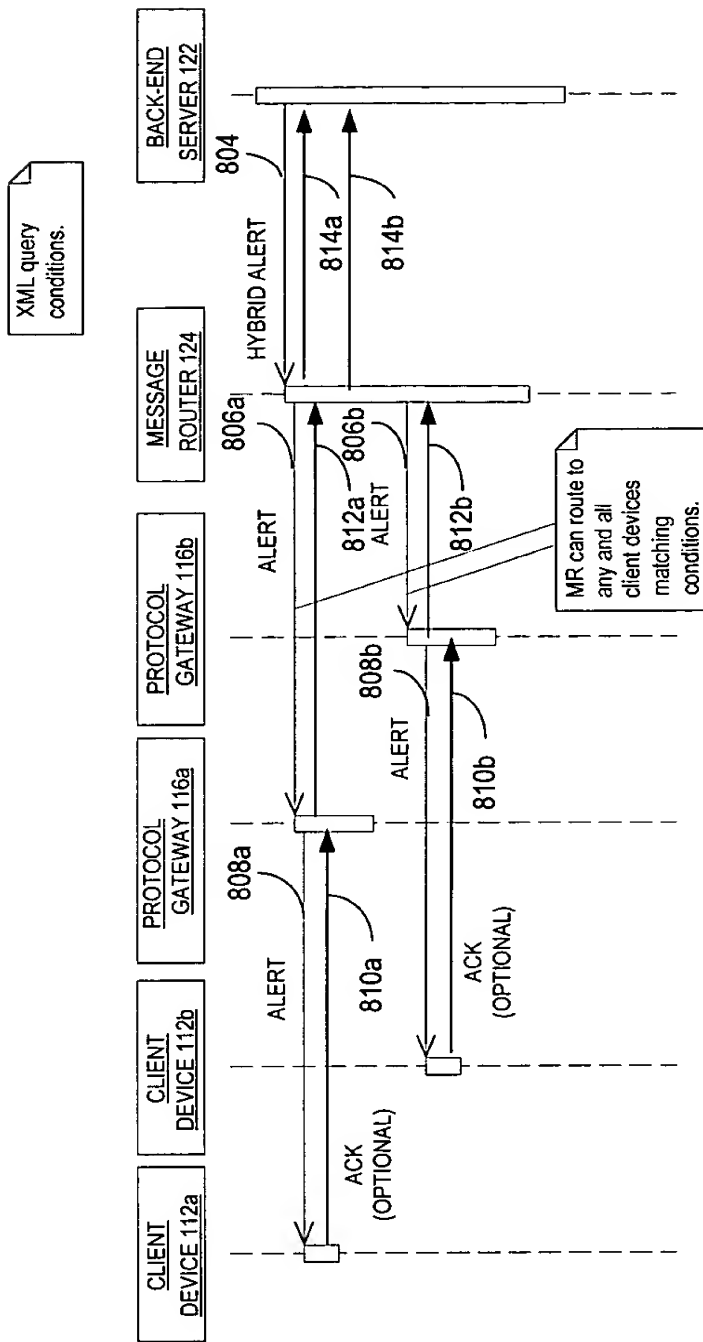


FIG. 8B

FIG. 8C is a sequence diagram illustrating a process flow involving a Client Device 117a, Protocol Gateway 116a, Message Router 124, and Backend Server 122. The diagram shows the exchange of messages and the determination of an alternative path when a device is unavailable to receive a message.

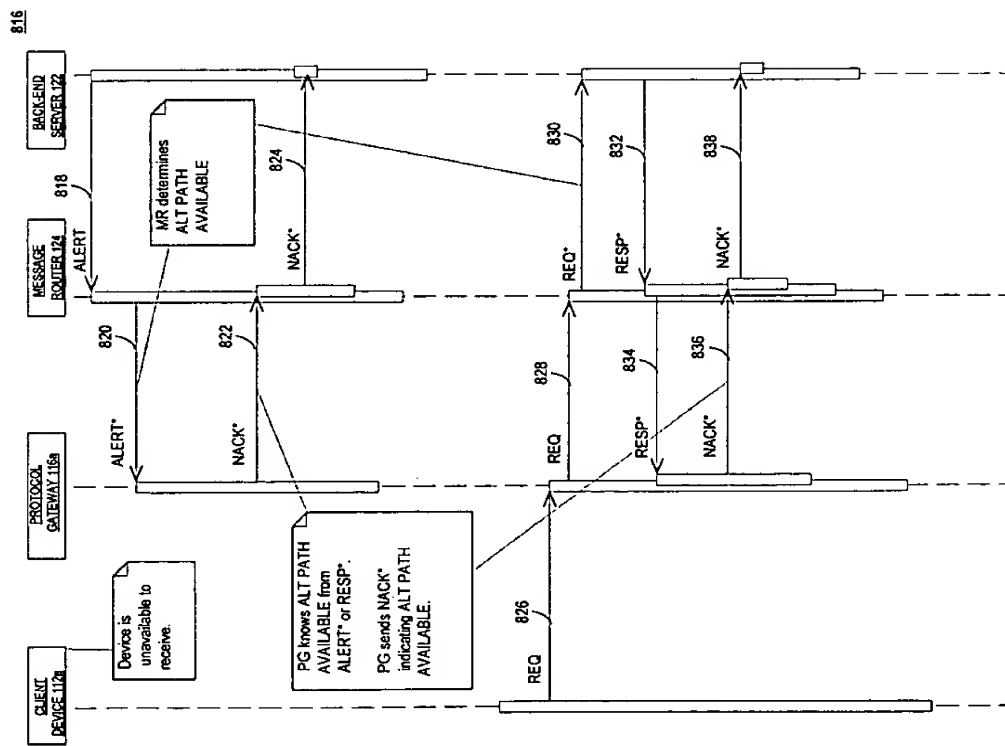


FIG. 8C

